

ABSTRACT

An electrolyte composition is formed containing ionic liquid having dicyanamide anions as anions. Examples of cations of the ionic liquid, may include, for example, cations having quaternized nitrogen atom. This electrolyte composition may contain halogen-based redox pair. When the electrolyte composition is used as an electrolyte of a photoelectric conversion element, it is possible to achieve a good photoelectric conversion characteristic since it can realize both a high current characteristic and a high voltage characteristic.